



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,698	11/05/2003	Ricardo Blank	N-32769A	7089
1095	7590	07/31/2007	EXAMINER	
NOVARTIS CORPORATE INTELLECTUAL PROPERTY ONE HEALTH PLAZA 104/3 EAST HANOVER, NJ 07936-1080			BOGART, MICHAEL G	
			ART UNIT	PAPER NUMBER
			3761	
			MAIL DATE	DELIVERY MODE
			07/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/701,698	BLANK ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Michael G. Bogart	3761

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 03 May 2007.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 2,3,7,8 and 10-29 is/are pending in the application.  
 4a) Of the above claim(s) 25 and 26 is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 2,3,7,8 and 10-24 and 27-29 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 29 November 2006 is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____.  	6) <input type="checkbox"/> Other: _____

## **DETAILED ACTION**

### ***Election/Restriction***

New claims 25 and 26 are directed to the frame-like member's cutter. This element was referred to as a leverage system in original claims 4 and 5.

Claims 25 and 26 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 29 November 2006.

### ***Specification***

The disclosure is objected to because of the following informalities:

At page 11, lines 20-26, reference number "10" has been used to designate both the cover and the cutting member.

Appropriate correction is required.

### ***Claim Objections***

Claims 20 is objected to because of the following informalities:

Claim 20 recites the limitation "the second threaded portion" in the second to the last line. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

***Claim Rejections – 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 12 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the threaded attachment means of the embodiment of figures 1-3 and in the specification at page 10, line 10-page 15, line 22, and an embodiment with the visualization means of the embodiment shown in figure 6, and in the specification at page 17, line 21-page 18, line 4, does not reasonably provide enablement for an embodiment combining the threaded attachment means with the visualization means. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

***Claim Rejections – 35 USC § 103***

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103(a), the examiner presumes that the subject matter of the various

Art Unit: 3761

claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. § 103(c) and potential 35 U.S.C. § 102(e), (f) or (g) prior art under 35 U.S.C. § 103(a).

Claims 2, 3, 7, 8, 13, 17-24 and 27-29 are rejected under 35 U.S.C. § 103 as being unpatentable over Kawaguchi *et al.* (CA 2 432 623 A1 or US 2004/0104246 A1; hereinafter “Kawaguchi”; all page, reference numbers and figures below are refer to the Canadian patent) in view of Knierbein (US 6,485,479 B1).

Regarding claims 2 and 20, Kawaguchi teaches a connector device (12) capable of connecting a feeding line (30) of an enteral administration set (30, 31) to a laminated paper packaging system (20) containing a composition, the connector device comprising:

a rigid tube part (112) capable of being sealingly attached to the feeding line (30) of the enteral administration set, the tube part (112) defining a first part of the a passageway (112g, 112c) allowing the flow of the composition contained in the laminated paper packaging system (20) to the feeding line (30) of the enteral administration set (30, 31), and

first means (112b, 112s) capable of threadably attaching the rigid tube part (112) to the laminated paper packaging system (20), whereby the connector (12) is screwed to the laminated paper packaging system (20), the first means (112b, 112s) further defining a second part of the passageway (112g, 112b) when threadably attached to the laminated paper packaging system (20), and

second means (112a) for opening the laminated paper packaging system upon connecting the connector device (12) onto the laminated paper packaging system (20).

Kawaguchi does not teach a cutting member rotatable with the connector device upon screwing the connector device onto the frame-like member of the packaging system, the cutting member projecting toward the surface such that the cutting member is capable of first cutting the surface only after engagement of the second threaded portion of the connector device with the first threaded portion of the packaging system (see figures 1 & 6, infra).

FIG. 1

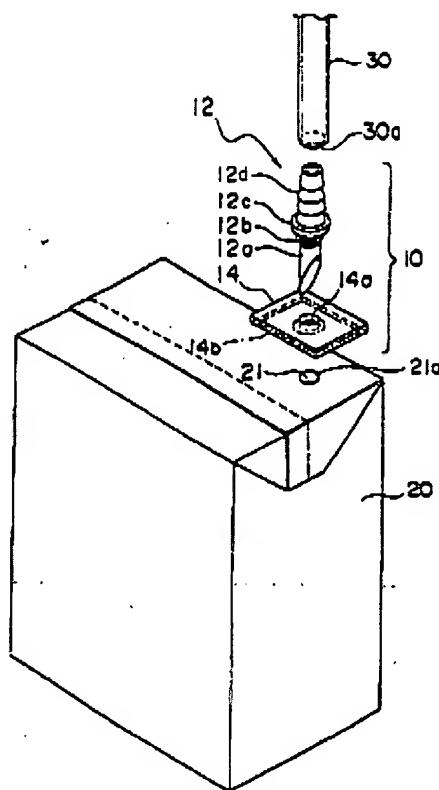
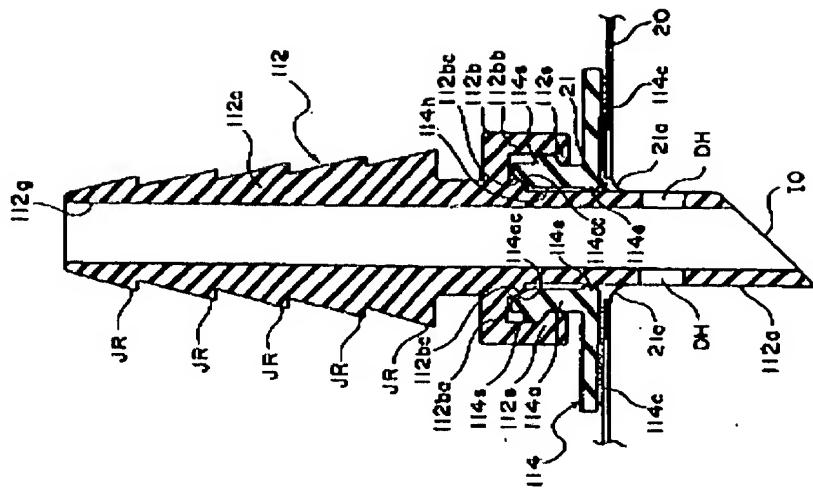


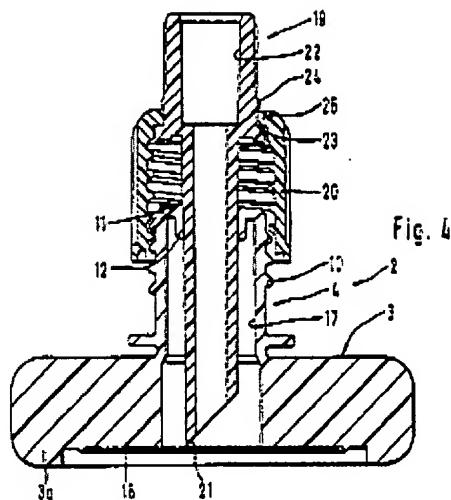
FIG. 6



Knierbein teaches a cutting member (21) rotatable with the connector device (20) upon screwing the connector device (20) onto the frame-like member (4), the cutting member (21) projecting toward the surface such that the cutting member (21) is capable of first cutting a sealed (18) surface only after engagement of a second threaded portion of the connector device (20) with a first threaded portion (see fig. 4, infra). This offers the advantage that the connector can be pre-engaged to a container in a sterile manner and hooked up to a patient without rupturing the container. When it is time to start treatment, feeding, etc., a caregiver just needs to rotate the connector.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to add the functional features of Knierbein's sterile connector to the laminated paper packaging system of Kawaguchi in order to provide a sterile means of hooking up a patient to the system prior to starting treatment.

Regarding the functional limitations of the claims, apparatus claims must be structurally distinguishable over the prior art. MPEP § 2114.



Regarding claim 7, Kawaguchi teaches tubular first spike (112a) capable of penetrating a first surface (20, 21) of the laminated paper packaging system (20) and defining a second part of the passageway (112g, 112a)(see fig. 6, supra).

Regarding claim 13, Kawaguchi teaches a prefabricated enteral administration system comprising an enteral administration set (30) and a connector device (12) non-releasably connected to the enteral administration set (30).

Regarding claims 17 and 18, Kawaguchi teaches a kit comprising prefabricated enteral administration system (30) according and a laminated paper packaging system (20) containing a composition capable of being enterally administered to a patient.

Regarding claim 19, the Kawaguchi's connector (12) requires significant force to remove from the enteral administration set (30) is interpreted herein as being relatively non-releasable compared to a connector that lacks barbs (JR)(fig. 6).

Regarding claim 21, Knierbein teaches a cutting member (21) that is integral with the first means (20).

Regarding claim 22, Knierbein teaches a connector (20) that is non-releasably connected to a container (see col. 4, lines 30-35).

Regarding claim 23, Kawaguchi teaches a kit comprising prefabricated enteral administration system (30) according and a laminated paper packaging system (20) containing a composition capable of being enterally administered to a patient.

Regarding claims 24 and 29, Kawaguchi teaches that the laminated paper packaging system (20) includes a first surface with a frame-like member (114) defining an annular threaded projection (114s), and wherein the first means (112b, 112s) comprises a threaded annular portion (112s) complementary to the threaded projection (114s) of the laminated paper packaging system (20).

Regarding claim 3, Kawaguchi teaches that the second means (112a) comprises a cutting member (12a, 112a) protruding downwards from the connector device (12, 112) towards the laminated paper packaging system (20) for cutting the laminated paper packaging system (20) when the connector (12, 112) is attached onto the frame-like member (114)(abstract). Knierbein teaches a cutting member (21) rotatable with the connector device (20) upon screwing the connector device (20) onto the frame-like member (4), the cutting member (21) projecting toward the surface such that the cutting member (21) is capable of first cutting a sealed (18) surface only after engagement of a second threaded portion of the connector device (20) with a first threaded portion (see fig. 4, infra).

Regarding claims 27 and 28, Kawaguchi teaches that the attachment means (14) for fixedly attaching the connector device (12) to the laminated paper packaging system (20) comprises a annular rim (14) having a surface facing towards the first surface of the laminated

Art Unit: 3761

paper packaging system (20), an adhesive layer (14b) being provided on the first surface for attaching the connector (12) to the laminated paper packaging system (20) upon penetration of the spike (12a).

Regarding claim 8, Kawaguchi teaches that the attachment means for fixedly attaching the connector device (12) to the laminated paper packaging system (20) comprises two rims (112b, 112s) extending in parallel around the spike (14a) axially spaced from each other at a predetermined distance, that rim (112b) located nearer to the point of the spike (12a) being made from a flexible material while that rim (12c) located farther from the point of the spike (14a) being made from a rigid material.

Claims 14 and 16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kawaguchi and Knierbein as applied to claims 2, 3, 7, 8, 13, 17-24 and 29 above, and further in view of Quinn *et al.* (US 4,895,275) and Schafer (US 5,993,422 A).

Kawaguchi and Knierbein do not teach a pump unit or means of controlling administration of fluid to a user of that device.

Quinn teaches the use of a TETRA BRIK type container as an enteral feeding device.

Schafer teaches a device for dosing medical fluids which includes a pump (2)(abstract).

At the time of the invention, it would have been obvious to modify the fluid container of Kawaguchi and Knierbein so that it functions as a enteral device as taught by Quinn, and to further add the dosing means and pump of Schafer in order to provide automation of the complete system.

Claims 15 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Kawaguchi and Knierbein as applied to claims 2, 3, 7, 8, 13, 17-24 and 29 above, and further in view of Quinn and Hindricks (US 3,001,525).

Kawaguchi and Knierbein do not teach an intermediate bag.

Quinn teaches the use of a TETRA BRIK type container as an enteral feeding device.

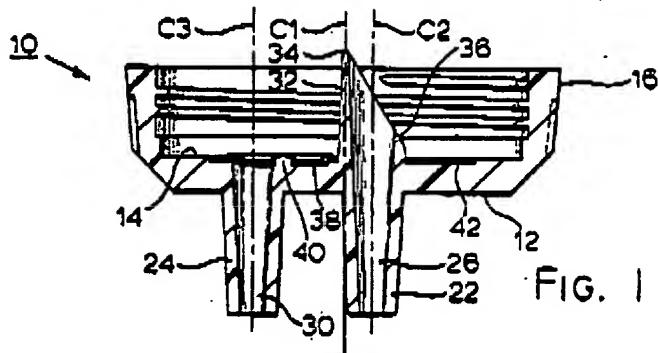
Hendricks teaches parenteral equipment that includes an intermediate bag (1) for mixing solutions.

At the time of the invention, it would have been obvious to modify the fluid container of Kawaguchi and Knierbein so that it functions as a enteral device as taught by Quinn, and to further add the intermediate bag of Hendricks in order to provide a means of reconstituting solutions.

Claims 10-12 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kawaguchi and Knierbein as applied to claims 2, 3, 7, 8, 13, 17-24 and 29 above, and further in view of Dickerhoff *et al.* (US 4,997,429).

Kawaguchi and Knierbein do not teach a vent or valve.

Dickerhoff teaches an enteral bottle cap (10) with a vent valve (24, 38) that permits entry of filtered air into the container while prevention liquid from exiting the container (see figure 1, infra). This provides for unimpeded flow of liquid through outlet (26).



At the time of the invention, it would have been obvious for one of ordinary skill in the art to add the vent valve of Dickerhoff to the connector of Kawaguchi and Knierbein in order to provide a means of venting the container while hooked up to a patient line.

Regarding claim 12, mere duplication of parts is not sufficient to patentably distinguish the invention over the prior art. *In re Harza*, 274 F.2d 669, 124 USPQ 378 (CCPA 1960).

#### *Response to Arguments*

Applicant's arguments with respect to claims 2, 3, 7, 8, 13 and 17-19 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's arguments regarding claims 20-23, filed 03 May 2007 have been fully considered but they are not persuasive.

In response to applicant's argument that Knierbein's coupler has a boat-shaped bottom portion that is structurally divergent and incompatible with the bottom portion of the coupler of Kawaguchi, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what

the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

Here, Knierbein is being applied only for the concept that the threaded coupling allows the coupler to be pre-engaged prior to the spike piecing the container.

Regarding claims 25 and 26, applicants assert that the subject matter of claims 24-28 is derived from previous versions of claims 2 and 7. The only support in any previously presented claims appears to be the leverage system on the frame-like paper packing system of original claims 4 and 5 which were previously subject to a restriction requirement and withdrawn as detailed supra.

Applicants have not addressed the rejection of claim 12 under 35 USC § 112(1).

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Bogart whose telephone number is (571) 272-4933.

In the event the examiner is not available, the Examiner's supervisor, Tatyana Zalukaeva may be reached at phone number (571) 272-1115. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for formal communications. For informal communications, the direct fax to the Examiner is (571) 273-4933.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-3700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

Art Unit: 3761

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael Bogart  
23 July 2007

TATYANA ZALUKAEVA  
SUPERVISORY PRIMARY EXAMINER

